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(54) Title: PIPERAZINE DERIVATIVES AND METHODS OF USE

(57) Abstract: The invention provides 2-carboxamide piperazine compounds of formula I, $R^3 \cdot I \cdot N^1 \cdot N \sim R^2 I(0)z - o R^4 I$ wherein R^1 , R^2 , R^3 and R^4 are as defined in the claims and methods of treatment and pharmaceutical compositions that utilize or comprise one or more such compounds. Compounds of the invention are useful for the treatment of mammalian infertility.

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